



COURSE SYLLABUS

Programs in Technology Education

General H.H. Arnold High School

- I. ~~COURSE NUMBER AND TITLE:~~ **TED302, Architectural Drawing**
- II. ~~CREDIT:~~ 2 Semesters
- III. ~~PREREQUISITE:~~ Students attempting this course should have successfully completed the Technical Drafting course.
- IV. ~~COURSE DESCRIPTION:~~ The Architectural Drawing course teaches students how to design and draft residential and single-story commercial buildings. Fundamentals, equipment, and skills related to drafting are covered. Students will work using Computer Aided Design (CAD) techniques to solve their drawing problems. Students progress at their own pace while studying and completing tasks independently. Hands-on activities and design and construction projects, supplemented with demonstrations and lectures familiarize students with what is considered to be the language of industry. This course is highly recommended for those students aspiring to be engineers or architects.
- V. ~~COURSE OBJECTIVES:~~ Upon completion of this course, students should be able to
 1. Maintain safety awareness in the laboratory.
 2. Employ vocational, employability, and interpersonal skills used in the world of work.
 3. Represent structures using CADD drawing methods.
 4. Use scientific principles, technological information, and skills to solve drafting problems.
 5. Design, draft, and construct a model home using the skills developed in this course.
- VI. ~~COURSE OUTLINE~~
 1. Residential Architecture - Past & Present
 2. Planning the Individual Rooms
 3. Designing the Exterior
 4. Getting Started on the Plan
 5. Drafting Tools and Techniques
 6. The Working Drawings and Specifications
 7. Methods of House Construction
 8. Footing, Foundation, and Basement Construction
 9. Residential Structure Members
 10. Electrical Features
 11. Plumbing
 12. Heating and Air Conditioning
 13. Energy Efficient Design
 14. Getting the House Built
 15. Architectural Rendering and Model Construction
 16. Working Drawings and Special Design Considerations
 17. Architecture Project - Dream House
 18. Architecture Modeling Project - Dream House
- VII. ~~CURRENT TEXTS:~~

ARCHITECTURE
Design - Engineering - Drawing
by William P. Spence
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